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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,654	07/16/2003	John Joseph Rabasco	06326 USA	1421
23543	7590 10/31/2005		EXAMINER	
	CTS AND CHEMICA	TARAZANO, DONALD LAWRENCE		
PATENT DEPARTMENT 7201 HAMILTON BOULEVARD			ART UNIT	PAPER NUMBER
	N, PA 181951501		1773	

DATE MAILED: 10/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	Application No.	Applicant(s)				
	10/620,654	RABASCO ET AL.				
Office Action Summary	Examiner	Art Unit				
	D. Lawrence Tarazano	1773				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 15 Au	1) Responsive to communication(s) filed on <u>15 August 2005</u> .					
,	<i>,</i> —					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.	☑ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	·.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
Notice of Draitsperson's Patent Drawing Review (170-340)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Solution (PTO-152)   Notice of Informal Patent Application (PTO-152)   Other:						

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 6-11, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniels et al. (5,872,181).

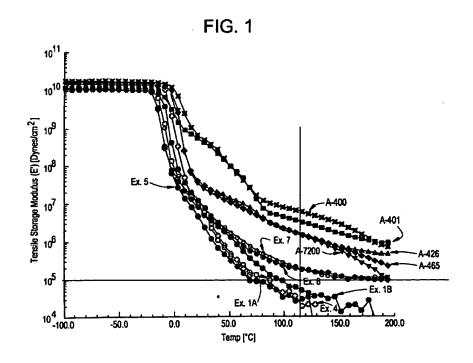


Figure 1, clearly teaches materials both commercial and working examples which have a storage modulus of greater than  $1 \times 10^5$  dynes / cm<sup>2</sup>. The materials are bonded to cotton fabric (column 9, lines 15+), which is an example of a cellulose material as claimed. Specifically example 6 contains 65% vinyl acetate, 23% ethylene, and 3% acrylic acid. As described in example 2 (the general method used to make example 6), polyvinyl alcohol is present in the polymerization of the monomers.

Furthermore, Commercial Airflex ™ materials (column 7, examples 8-12) also have the claimed storage modulus as shown in figure 1.

It appears that the have the heat of fusion and melting points claimed based on the materials and methods used to produce the polymers.

Specifically regarding the melting point of the polymers, there is clear reason to believe that the property would be inherent to the materials taught. First, the applicants claim a very broad range (35-110 deg C). Second the types of comonomers used and the amounts of them along with the polymerization conditions follow closely to the process used by the applicants.

3. Additional monomers may use present including N-methylol acrylamide (column 2, lines 65+) and the amount of monomers claimed is clearly within the range claimed (column 2, lines

#### Claim Rejections - 35 USC § 103

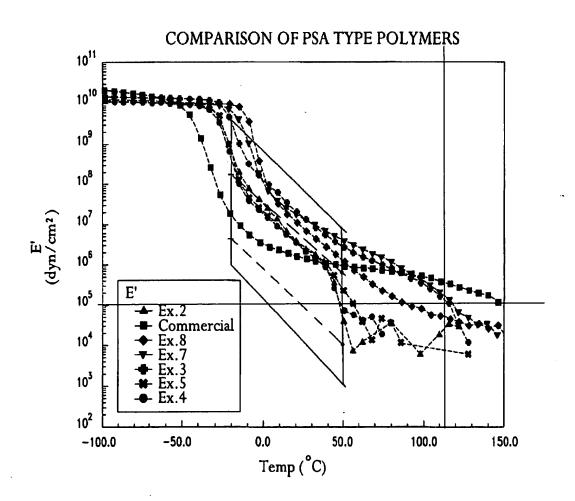
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels et al. (5,872,181)

- 6. Regarding 5,872,181, additional monomers may use present including N-methylol acrylamide (column 2, lines 65+).
- 7. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used small amounts of N-methylol acrylamide in the polymers taught since this comonomer is suggested.
- 8. Regarding claim 5, the examiner takes the position that "about 50%" ethylene is suggested by the 45% ethylene suggested in the reference. The term "about" gives a certain amount of latitude to the reference.
- 9. Regarding claims 11-18, since the background of the invention of the patent states that it is conventional to coat pressure sensitive adhesives on paper to make paper labels etc... It would have been obvious to one having ordinary skill in the art to have used either commercial products or the materials taught by Daniels et al. to coat paper or cardboard with them to make adhesive structure.
- 10. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniels et al. (6,316,978).
- 11. US 6,316,978 clearly teaches polymers having the claimed storage modulus, while there are no examples showing the polymers coated on paper or other cellulose material, they disclose that pressure sensitive adhesives are widely use in the fabrication of "paper labels" (column 1, lines 11+).

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12. Regarding claims 1-18, since the background of the invention of the patent states that it is conventional to coat pressure sensitive adhesives on paper to make paper labels etc... It would have been obvious to one having ordinary skill in the art to have used either commercial products or the materials taught by Daniels et al. to coat paper or cardboard with them to make adhesive structure.



13. Claim 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Daniels et al. (5,872,181 or 6,316,978) as discussed above in view of Worrall (3,355,322).

14. Worrall teaches that copolymers used to coat cellulose can contain 20-70% ethylene and

80-30% vinyl acetate (column 1, lines 41+).

15. It would have been obvious to one having ordinary skill in the art at the time the

invention was made to have 50-70% ethylene and the corresponding amounts of other monomers

in the materials taught by Daniels et al. for coating paper substrates.

### Request for Information under 37 CFR 1.105

16. MPEP: 706.02(c), Note that as an aid to resolving public use or on sale issues, as well as

to other related matters of 35 U.S.C. 102(b) activity, an applicant may be required to answer

specific questions posed by the examiner and to explain or supplement any evidence of record.

See 35 U.S.C. 132, 37 CFR 1.104(a)(2). Information sought should be restricted to that which is

reasonably necessary for the examiner to render a decision on patentability. The examiner may

consider making a requirement for information under 37 CFR 1.105 where the evidence of

record indicates reasonable necessity. See MPEP § 704.10 et seq.

17. It is clear that a series of Airflex<sup>TM</sup> materials were on the market prior to the filing of the

instant application. Data in prior art patents teach that specific examples of these materials have

the claimed storage modulus (see 6,063,858, column 7). The examiner feels that it is necessary

to know specifically how these materials were marketed to the public prior to the filing of the

instant applications; especially if there was any suggestion that they could be used on paper,

cardboard, fabric, or cellulose products. This information is necessary to in determining the

patentability of the instant claims.

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## Response to Arguments

Applicant's arguments filed 08/15/2005 have been fully considered but they are not persuasive. The applicants claim materials, which have a crystalline melting point ranging from 35 to 110 degrees C and a storage modulus of at least 1 x 10<sup>5</sup> dynes/cm<sup>2</sup>.

The applicants argue that the prior art materials do no have the claimed properties. The applicants state that "the properties of the claimed polymer are differed from those in the prior art cited by the Examiner, the claim language should put on notice in an analysis under 35 U.S.C. 102(b) that the Applicants' claimed parameters... are relevant for differentiating the polymers from the prior art."

It is true that it is the applicants' responsibility file the broadest claims to which they may be entitled and that applicant may claim his invention using what ever means best defines his invention.

MPEP 2112.01: Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

In this instance the examiner has clearly pointed out where the prior art has the claimed storage modulus, that the materials are coated on cellulose materials, and provided reasons why the prior art materials would have the claimed melting point.

The recitations in the claim related to the polymerization conditions are merely taken as process limitations in an article claim.

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Process limitations in claims are not limited to the manipulations of the recited steps, only the structure implied by the steps. "In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985).

Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 562 F.2d at 1255, 195 USPQ at 433. See also Titanium Metals Corp. v. Banner, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985).

The thrust of the cited patents is to show materials, which have low storage modules. Daniels et al. (5,872,181) claim materials having a low storage modulus, but within the teachings of the reference are comparative and working examples having the claimed storage modulus.

It is not common to characterize ethylene vinyl acetate polymers in terms of their storage modulus. The examiner scoured the prior art to find materials, which had been characterized in these terms. During the search of the prior art the examiner found a number of patents, which cited this feature. The instant claims were rejected over these materials.

Since a number of comparative materials were commercial products and these products had the claimed storage modulus, the examiner felt that information was material to the patentability of the claimed invention. NO information was provided with the applicants' response. Instead of sending the applicant a non-responsive amendment, the examiner wishes to clarify the issue. The publicly disseminated information on the exact comparative Air Products materials is what is desired.

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It is the examiners position that commercial products were on the market having the claimed properties. It is important to know how these products have been used in the past and how they were intended to be used.

MPEP 2112: "[T]he discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition patentably new to the discoverer." Atlas Powder Co. v. Ireco Inc., 190 F.3d 1342, 1347, 51 USPQ2d 1943, 1947 (Fed. Cir. 1999). Thus the< claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable. In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977).

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Lawrence Tarazano whose telephone number is (571)-272-1515. The examiner can normally be reached on M-F 8:30AM to 6:00PM (second Friday off).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571)-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Lawrence Tarazano Primary Examiner Art Unit 1773